

Glutaric acid, 2-iodobenzyl nonyl ester

Inchi: InChI=1S/C21H31IO4/c1-2-3-4-5-6-7-10-16-25-20(23)14-11-15-21(24)26-17-18-12-8-9-1
InchiKey: YCHWALCBXWZQQA-UHFFFAOYSA-N
Formula: C21H31IO4
SMILES: CCCCCCCCCOC(=O)CCCC(=O)OCc1ccccc1I
Mol. weight [g/mol]: 474.37

Physical Properties

Property code	Value	Unit	Source
gf	-181.00	kJ/mol	Joback Method
hf	-664.44	kJ/mol	Joback Method
hfus	53.78	kJ/mol	Joback Method
hvap	92.96	kJ/mol	Joback Method
log10ws	-7.08		Crippen Method
logp	5.798		Crippen Method
mcvol	323.690	ml/mol	McGowan Method
pc	1232.88	kPa	Joback Method
rinpol	2996.00		NIST Webbook
rinpol	2996.00		NIST Webbook
tb	957.26	K	Joback Method
tc	1177.82	K	Joback Method
tf	567.75	K	Joback Method
vc	1.240	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	989.07	J/mol×K	957.26	Joback Method
cpg	1003.20	J/mol×K	994.02	Joback Method
cpg	1016.10	J/mol×K	1030.78	Joback Method
cpg	1027.83	J/mol×K	1067.54	Joback Method
cpg	1038.42	J/mol×K	1104.30	Joback Method
cpg	1047.92	J/mol×K	1141.06	Joback Method
cpg	1056.38	J/mol×K	1177.82	Joback Method
dvisc	0.0003687	Pa×s	567.75	Joback Method

dvisc	0.0002008	Pa×s	632.67	Joback Method
dvisc	0.0001225	Pa×s	697.59	Joback Method
dvisc	0.0000813	Pa×s	762.50	Joback Method
dvisc	0.0000575	Pa×s	827.42	Joback Method
dvisc	0.0000428	Pa×s	892.34	Joback Method
dvisc	0.0000331	Pa×s	957.26	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U376884&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log_{10ws}:	Log10 of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
p_c:	Critical Pressure
rin_{pol}:	Non-polar retention indices
t_b:	Normal Boiling Point Temperature
t_c:	Critical Temperature
t_f:	Normal melting (fusion) point
v_c:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/94-231-1/Glutaric-acid-2-iodobenzyl-nonyl-ester.pdf>

Generated by Cheméo on 2025-12-06 04:47:50.137162391 +0000 UTC m=+4744667.667203046.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.